

WHAT IS CLAIMED IS:

1. A dental head unit capable of measuring a root canal length of a patient, comprising:

5 a head section having a sleeve rotatably supported therein for detachably holding a cutting tool therein;

a neck section extending proximally from said head section and having a proximal end for connecting to a handpiece body;

10 a contact capable of detachably contacting the cutting tool for providing electric connection to the cutting tool when in contact; and

a contact holder fixed to a proximal end of said contact and axially slidable with respect to said neck section, said contact holder has a lead attachment to which a lead
15 for electrically connecting said contact to a root canal length measuring device is detachably attached.

2. The dental head unit of claim 1, wherein said contact comprises two rods, each having a distal end portion
20 configured to disengageably hold said cutting tool between said two rods.

3. The dental head unit of claim 2, wherein said two rods are arranged on opposite sides of said lead attachment.

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4. The dental head unit of claim 1, wherein said contact holder is provided on and around said neck section.

5. The dental head unit of claim 1, wherein said lead attachment is a hole provided in the contact holder.

5 6. A contact holder assembly for use with a dental head unit of claim 1 having a head section and a neck section, comprising:

10 a contact capable of detachably contacting a cutting tool held in a head section of a dental head unit for providing electric connection to the cutting tool when in contact; and

15 a contact holder fixed to a proximal end of said contact and axially slidable with respect to a neck section of the dental head unit, said contact holder has a lead attachment to which a lead for electrically connecting said contact to a root canal length measuring device is detachably attached.